This is a preview of "ISO 14708-1:2014". Click here to purchase the full version from the ANSI store.

Second edition 2014-08-15

Implants for surgery — Active implantable medical devices —

Part 1:

General requirements for safety, marking and for information to be provided by the manufacturer

Implants chirurgicaux — Dispositifs médicaux implantables actifs — Partie 1: Exigences générales pour la sécurité, le marquage et pour les informations à fournir par le fabricant



Reference number ISO 14708-1:2014(E)

ISO 14708-1:2014(E)

This is a preview of "ISO 14708-1:2014". Click here to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Case postale 56 • CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.org Web www.iso.org

Published in Switzerland

This is a preview of "ISO 14708-1:2014". Click here to purchase the full version from the ANSI store.

COI	ntents	Page
Fore	eword	v
Intro	oduction	vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols and abbreviations (optional)	7
5	General requirements for ACTIVE IMPLANTABLE MEDICAL DEVICES 5.1 General requirements for non-implantable parts 5.2 General requirements for software 5.3 USABILITY of non-implantable parts 5.4 Data security and protection from HARM caused by unauthorized information tamporates 5.5 General requirements for RISK MANAGEMENT 5.6 Misconnection of parts of the ACTIVE IMPLANTABLE MEDICAL DEVICE	
6	Requirements for particular ACTIVE IMPLANTABLE MEDICAL DEVICES	9
7	General arrangement of the packaging	9
8	General markings for active implantable medical devices	9
9	MARKINGS on the SALES PACKAGING	10
10	Construction of the SALES PACKAGING	11
11	MARKINGS on the STERILE PACK	12
12	Construction of the NON-REUSABLE PACK	13
13	MARKINGS on the ACTIVE IMPLANTABLE MEDICAL DEVICE	13
14	Protection from unintentional biological effects being caused by the ACTIVE IMPLANTAMEDICAL DEVICE	
15	Protection from HARM to the patient or user caused by external physical features of t ACTIVE IMPLANTABLE MEDICAL DEVICE	
16	Protection from HARM to the patient caused by electricity	16
17	Protection from HARM to the patient caused by heat	
	17.1 Protection from HARM to the patient caused by heat	
18	Protection from ionizing radiation released or emitted from the ACTIVE IMPLANTABLE MEDICAL DEVICE	Ξ
19	Protection from unintended effects caused by the ACTIVE IMPLANTABLE MEDICAL DEVICE	CE17
20	Protection of the ACTIVE IMPLANTABLE MEDICAL DEVICE from damage caused by external defibrillators	19
21	Protection of the ACTIVE IMPLANTABLE MEDICAL DEVICE from changes caused by electrical fields applied directly to the patient	ical 23
22	Protection of the ACTIVE IMPLANTABLE MEDICAL DEVICE from changes caused by miscellaneous medical treatments	23
23	Protection of the active implantable medical device from mechanical forces	24
24	Protection of the ACTIVE IMPLANTABLE MEDICAL DEVICE from damage caused by electrostatic discharge	26
25	Protection of the ACTIVE IMPLANTABLE MEDICAL DEVICE from damage caused by atmospheric pressure changes	26

ISO 14708-1:2014(E)

This is a preview of "ISO 14708-1:2014". Click here to purchase the full version from the ANSI store.

	Protection of the ACTIVE IMPLANTABLE MEDICAL DEVICE from damage caused by temperature changes	26
	Protection of the ACTIVE IMPLANTABLE MEDICAL DEVICE from electromagnetic non-ionizing radiation	27
28	Accompanying documentation	28
Annex	A (informative) General guidance and rationale	32
Annex	B (informative) Relationship between the fundamental principles in ISO/TR 14283:200 and the clauses of this part of ISO 14708	4 43
Biblio	graphy	56

This is a preview of "ISO 14708-1:2014". Click here to purchase the full version from the ANSI store.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 150, *Implants for surgery*, Subcommittee SC 6, *Active implants*.

This second edition cancels and replaces the first edition (ISO 14708-1:2000), which has been technically revised.

ISO 14708 consists of the following parts, under the general title *Implants for surgery — Active implantable medical devices*:

- Part 1: General requirements for safety, marking and for information to be provided by the manufacturer
- Part 2: Cardiac pacemakers
- Part 3: Implantable neurostimulators
- Part 4: Implantable infusion pumps
- Part 5: Circulatory support devices
- Part 6: Particular requirements for active implantable medical devices intended to treat tachyarrhythmia (including implantable defibrillators)
- Part 7: Particular requirements for cochlear implant systems

NOTE The attention of Member Bodies is drawn to the fact that equipment manufacturers and testing organizations might need a transitional period following publication of a new, amended, or revised ISO publication in which to make products in accordance with the new requirements and to equip them for conducting new or revised tests. It is the recommendation of the committee that the content of this publication not be adopted for mandatory implementation nationally earlier than three years from the date of publication.

ISO 14708-1:2014(E)

This is a preview of "ISO 14708-1:2014". Click here to purchase the full version from the ANSI store.

Introduction

This part of ISO 14708 specifies general requirements for ACTIVE IMPLANTABLE MEDICAL DEVICES to provide basic assurance of safety for both patients and users.

To minimize the likelihood of a device being misused, this part of ISO 14708 also details comprehensive requirements for MARKINGS and for other information to be supplied as part of the documentation with any ACTIVE IMPLANTABLE MEDICAL DEVICE.

For particular types of ACTIVE IMPLANTABLE MEDICAL DEVICE, the general requirements can be supplemented or modified by the requirements of other parts of ISO 14708. A requirement of a particular part of ISO 14708 takes priority over the corresponding requirement of this general part of ISO 14708. Where particular parts of ISO 14708 exist, this general part of ISO 14708 is not intended to be used alone. Special care is required when applying this general part of ISO 14708 alone to ACTIVE IMPLANTABLE MEDICAL DEVICES for which no particular International Standard has yet been published.